

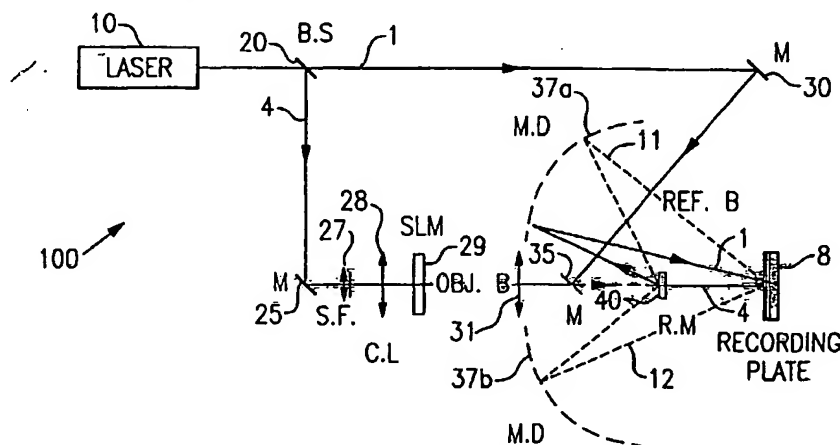


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(54) Title: METHOD AND APPARATUS FOR RECORDING TO AND READING FROM A DIFFRACTIVE OPTICS MEMORY USING SYMMETRICAL ANGULAR ENCODING



(57) Abstract: The present invention relates to an apparatus and method for reading information from and recording information to a diffractive optics memory (8) using symmetrical angular encoding. A coherent light source (LASER 10) is split to form an object beam (OBJ.B4) and a corresponding reference beam (REF.B1). An optical axis is defined by the object beam being aligned perpendicular to a plane of the diffractive optics memory. A steering mirror (R.M 40) is configured to direct the reference beam received from the coherent light source to the memory. A first plurality of mirrors (37a) arranged around one side of the optical axis receives the reference beam from the steering mirror and directs the reference beam at a first angle towards the memory. A second plurality of mirrors (37b) arranged around the symmetrical side of the optical axis receives the reference beam from the steering mirror and directs the reference beam at a second angle towards the memory. The first angle is identical to the second angle but formed on the symmetrical side of the optical axis.

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